

Listing of Claims:

Please cancel claims 1-24, and add new claims 25-132.

- 1 **Claim 25.** (New) A method of providing phosphorus to a plant, said method comprising:
- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
- 3 comprising at least one phosphorous-containing acid or salt thereof which is
- 4 present in said formulation in an amount of from about 30 to about 40 percent
- 5 (wt/vol), thus forming a phosphorus fertilizer that is buffered, substantially
- 6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and
- 7 (b) applying said phosphorus fertilizer to the foliage of said plant.
- 1 **Claim 26.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said formulation with said water; and
- 3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 27.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water; and
- 3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 28.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water;
- 3 (2) diluting said formulation with said water; and
- 4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 29.** (New) The method of claim 25, wherein said phosphorus fertilizer has a pH of
- 2 5.0 to 7.0.
- 1 **Claim 30.** (New) The method of claim 25, wherein said mixing further comprises:
- 2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 31.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphorous-containing acid or salt thereof which is  
4 present in said formulation in an amount of about 30 percent (wt/vol) or  
5 greater, thus forming a phosphorus fertilizer that is buffered, substantially  
6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

7 (b) applying said phosphorus fertilizer to the foliage of said plant.

1 **Claim 32.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 33.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 34.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 35.** (New) The method of claim 31, wherein said phosphorus fertilizer has a pH of  
2 5.0 to 7.0.

1 **Claim 36.** (New) The method of claim 31, wherein said mixing further comprises:

2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 37.** (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation comprising at least one phosphorous-containing acid or salt thereof, wherein said formulation comprises phosphorus in an amount equivalent to from about 0.30 kg/L to about 0.40 kg/L  $P_2O_5$ , thus forming a phosphorus fertilizer that is buffered, substantially fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

(b) applying said phosphorus fertilizer to the foliage of said plant.

**Claim 38.** (New) The method of claim 37, wherein said mixing comprises:

- (1) diluting said formulation with said water; and
- (2) mixing said organic acid or salt thereof and the product of step (1).

**Claim 39.** (New) The method of claim 37, wherein said mixing comprises:

- (1) diluting said organic acid or salt thereof with said water; and
- (2) mixing said formulation and the product of step (1).

**Claim 40.** (New) The method of claim 37, wherein said mixing comprises:

- (1) diluting said organic acid or salt thereof with said water;
- (2) diluting said formulation with said water; and
- (3) mixing the product of step (1) and the product of step (2).

**Claim 41.** (New) The method of claim 37, wherein said phosphorus fertilizer has a pH of 5.0 to 7.0.

**Claim 42.** (New) The method of claim 37, wherein said mixing further comprises:  
adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

**Claim 43.** (New) A method of providing phosphorus to a plant, said method comprising:

- (a) mixing water, at least one organic acid or salt thereof, and a formulation comprising at least one phosphorous-containing acid or salt thereof, wherein

4                   said formulation comprises phosphorus in an amount equivalent to about 0.30  
5                   kg/L or greater  $P_2O_5$ , thus forming a phosphorus fertilizer that is buffered,  
6                   substantially fully solubilized, and has a foliage-acceptable pH for phosphorus  
7                   uptake; and

8                   (b) applying said phosphorus fertilizer to the foliage of said plant.

1   **Claim 44.**   (New) The method of claim 43, wherein said mixing comprises:

- 2                   (1) diluting said formulation with said water; and  
3                   (2) mixing said organic acid or salt thereof and the product of step (1).

1   **Claim 45.**   (New) The method of claim 43, wherein said mixing comprises:

- 2                   (1) diluting said organic acid or salt thereof with said water; and  
3                   (2) mixing said formulation and the product of step (1).

1   **Claim 46.**   (New) The method of claim 43, wherein said mixing comprises:

- 2                   (1) diluting said organic acid or salt thereof with said water;  
3                   (2) diluting said formulation with said water; and  
4                   (3) mixing the product of step (1) and the product of step (2).

1   **Claim 47.**   (New) The method of claim 43, wherein said phosphorus fertilizer has a pH of  
2   5.0 to 7.0.

1   **Claim 48.**   (New) The method of claim 43, wherein said mixing further comprises:

2                   adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1   **Claim 49.**   (New) A method of providing phosphorus to a plant, said method comprising:

- 2                   (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3                   comprising at least one phosphite-containing compound, wherein said  
4                   formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L  
5                   or greater  $P_2O_5$ , thus forming a phosphite fertilizer that is buffered,

substantially fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

(b) applying said phosphite fertilizer to the foliage of said plant.

**Claim 50.** (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

**Claim 51.** (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

**Claim 52.** (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

**Claim 53.** (New) The method of claim 49, wherein said phosphite fertilizer has a pH of 5.0 to 7.0.

**Claim 54.** (New) The method of claim 49, wherein said mixing further comprises:

adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

**Claim 55.** (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation

comprising at least one phosphite-containing compound, wherein said

formulation comprises phosphorus in an amount equivalent to from about 0.30

kg/L to 0.40 kg/L or greater  $P_2O_5$ , thus forming a phosphorus fertilizer that is

buffered, substantially fully solubilized, and has a foliage-acceptable pH for

phosphorus uptake; and

8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 56.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 57.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 58.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 59.** (New) The method of claim 55, wherein said phosphite fertilizer has a pH of 5.0  
2 to 7.0.

1 **Claim 60.** (New) The method of claim 55, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 61.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation

3 comprising at least one phosphite-containing compound, wherein said

4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L

5 or greater  $P_2O_5$ , thus forming a phosphite fertilizer that is buffered,

6 substantially fully solubilized, and has a foliage-acceptable pH for phosphorus

7 uptake; and

8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 62.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 63.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 64.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 65.** (New) The method of claim 61, wherein said phosphite fertilizer has a pH of 5.0  
2 to 7.0.

1 **Claim 66.** (New) The method of claim 61, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0:

1 **Claim 67.** (New) A method of providing phosphorus to a plant, comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and at least one

3 formulation comprising a phosphorous-containing acid, wherein said

4 phosphorous-containing acid is selected from the group consisting of

5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,

6 polyhypophosphorous acid, and salts thereof, thus forming a phosphorus

7 fertilizer with a pH less than about 2.5; and

8 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near  
9 said plant.

1 **Claim 68.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 69.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 70.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 71.** (New) A method of providing phosphorus to a plant, comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and at least one  
3 formulation comprising a phosphorous-containing acid, wherein said  
4 phosphorous-containing acid is selected from the group consisting of  
5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,  
6 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-  
7 containing acid or salt thereof is present in said formulation in an amount of  
8 about 30 percent or greater (wt/vol), thus forming a phosphorus fertilizer with  
9 a pH less than about 2.5; and

10 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near  
11 said plant.

1 **Claim 72.** (New) The method of claim 71, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 73.** (New) The method of claim 71, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

**Claim 74.** (New) The method of claim 71, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

**Claim 75.** (New) A method of providing phosphorus to a plant, comprising:

(a) mixing water, at least one organic acid or salt thereof, and at least one formulation comprising a phosphorous-containing acid, wherein said phosphorous-containing acid is selected from the group consisting of phosphorous acid, hypophosphorous acid, polyphosphorous acid, polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-containing acid or salt thereof is present in said formulation in an amount of between about 30 percent and 46 percent (wt/vol), thus forming said phosphorus fertilizer with a pH less than 2.5; and

(b) applying said phosphorus fertilizer, through an irrigation system, to soil near said plant.

**Claim 76.** (New) The method of claim 75, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

**Claim 77.** (New) The method of claim 75, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

1 **Claim 78.** (New) The method of claim 75, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 79.** (New) A method of making a phosphorus fertilizer, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphorous-containing acid or salt thereof which is  
4 present in said formulation in an amount of from about 30 to about 40 percent  
5 (wt/vol), thus forming said phosphorus fertilizer, wherein said phosphorus  
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-  
7 acceptable pH for phosphorus uptake.

1 **Claim 80.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 81.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 82.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 83.** (New) The method of claim 79, wherein said phosphorus fertilizer has a pH of  
2 5.0 to 7.0.

1 **Claim 84.** (New) The method of claim 79, wherein said mixing further comprises:  
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 85.** (New) A method of making a phosphorus fertilizer, said method comprising:  
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphorous-containing acid or salt thereof which is  
4 present in said formulation, in an amount of about 30 percent (wt/vol) or  
5 greater, thus forming said phosphorus fertilizer, wherein said phosphorus  
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-  
7 acceptable pH for phosphorus uptake.

1 **Claim 86.** (New) The method of claim 85, wherein said mixing comprises:  
2 (1) diluting said formulation with said water; and  
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 87.** (New) The method of claim 85, wherein said mixing comprises:  
2 (1) diluting said organic acid or salt thereof with said water; and  
3 (2) mixing said formulation and the product of step (1).

1 **Claim 88.** (New) The method of claim 85, wherein said mixing comprises:  
2 (1) diluting said organic acid or salt thereof with said water;  
3 (2) diluting said formulation with said water; and  
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 89.** (New) The method of claim 85, wherein said phosphorus fertilizer has a pH of  
2 5.0 to 7.0.

1 **Claim 90.** (New) The method of claim 85, wherein said mixing further comprises:  
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 91.** (New) A method of making a phosphorus fertilizer, said method comprising:  
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphorous-containing acid or salt thereof, wherein  
4 said formulation comprises phosphorus in an amount equivalent to from about  
5 0.30 kg/L to about 0.40 kg/L  $P_2O_5$ , thus forming said phosphorus fertilizer,  
6 wherein said phosphorus fertilizer is buffered, substantially fully solubilized,  
7 and has a foliage-acceptable pH for phosphorus uptake.

1 **Claim 92.** (New) The method of claim 91, wherein said mixing comprises:  
2 (1) diluting said formulation with said water; and  
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 93.** (New) The method of claim 91, wherein said mixing comprises:  
2 (1) diluting said organic acid or salt thereof with said water; and  
3 (2) mixing said formulation and the product of step (1).

1 **Claim 94.** (New) The method of claim 91, wherein said mixing comprises:  
2 (1) diluting said organic acid or salt thereof with said water;  
3 (2) diluting said formulation with said water; and  
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 95.** (New) The method of claim 91, wherein said phosphorus fertilizer has a pH of  
2 5.0 to 7.0.

1 **Claim 96.** (New) The method of claim 91, wherein said mixing further comprises:  
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 97.** (New) A method of making a phosphorus fertilizer, said method comprising:  
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphorous-containing acid or salt thereof, wherein

4                   said formulation comprises phosphorus in an amount equivalent to about 0.30  
5                   kg/L or greater  $P_2O_5$ , thus forming said phosphorus fertilizer, wherein said  
6                   phosphorus fertilizer is buffered, substantially fully solubilized, and has a  
7                   foliage-acceptable pH for phosphorus uptake.

1   **Claim 98.**   (New) The method of claim 97, wherein said mixing comprises:

2                   (1) diluting said formulation with said water; and

3                   (2) mixing said organic acid or salt thereof and the product of step (1).

1   **Claim 99.**   (New) The method of claim 97, wherein said mixing comprises:

2                   (1) diluting said organic acid or salt thereof with said water; and

3                   (2) mixing said formulation and the product of step (1).

1   **Claim 100.**   (New) The method of claim 97, wherein said mixing comprises:

2                   (1) diluting said organic acid or salt thereof with said water;

3                   (2) diluting said formulation with said water; and

4                   (3) mixing the product of step (1) and the product of step (2).

1   **Claim 101.**   (New) The method of claim 97, wherein said phosphorus fertilizer has a pH of  
2   5.0 to 7.0.

1   **Claim 102.**   (New) The method of claim 97, wherein said mixing further comprises:

2                   adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1   **Claim 103.**   (New) A method of making a phosphite fertilizer, said method comprising:

2                   (a) mixing water, at least one organic acid or salt thereof, and a formulation

3                   comprising at least one phosphite-containing compound, wherein said

4                   formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L

5                   or greater  $P_2O_5$ , thus forming said phosphite fertilizer, wherein said phosphite

6 fertilizer is buffered, substantially fully solubilized, and has a foliage-  
7 acceptable pH for phosphorus uptake.

1 **Claim 104.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 105.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 106.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 107.** (New) The method of claim 103, wherein said phosphite fertilizer has a pH of 5.0  
2 to 7.0.

1 **Claim 108.** (New) The method of claim 103, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 109.** (New) A method of making a phosphite fertilizer, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation

3 comprising at least one phosphite-containing compound, wherein said

4 formulation comprises phosphorus in an amount equivalent to from about 0.30

5 kg/L to 0.40 kg/L or greater  $P_2O_5$ , thus forming said phosphite fertilizer,

6 wherein said phosphite fertilizer is buffered, substantially fully solubilized,

7 and has a foliage-acceptable pH for phosphorus uptake.

1 **Claim 110.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and  
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 111.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and  
3 (2) mixing said formulation and the product of step (1).

1 **Claim 112.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;  
3 (2) diluting said formulation with said water; and  
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 113.** (New) The method of claim 109, wherein said phosphite fertilizer has a pH of 5.0  
2 to 7.0.

1 **Claim 114.** (New) The method of claim 109, wherein said mixing further comprises:  
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 115.** (New) A method of making a phosphite fertilizer, said method comprising:

- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation  
3 comprising at least one phosphite-containing compound, wherein said  
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L  
5 or greater  $P_2O_5$ , thus forming said phosphite fertilizer, wherein said phosphite  
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-  
7 acceptable pH for phosphorus uptake.

1 **Claim 116.** (New) The method of claim 115, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and  
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 117.** (New) The method of claim 115, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 118.** (New) The method of claim 115, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 119.** (New) The method of claim 115, wherein said phosphite fertilizer has a pH of 5.0  
2 to 7.0.

1 **Claim 120.** (New) The method of claim 115, wherein said mixing further comprises:  
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 121.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,  
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one  
4 formulation comprising a phosphorous-containing acid, wherein said  
5 phosphorous-containing acid is selected from the group consisting of  
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,  
7 polyhypophosphorous acid, and salts thereof, thus forming said phosphorus  
8 fertilizer.

1 **Claim 122.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 123.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 124.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 125.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,  
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one

4 formulation comprising a phosphorous-containing acid, wherein said

5 phosphorous-containing acid is selected from the group consisting of

6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,

7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-

8 containing acid or salt thereof is present in said formulation in an amount of

9 about 30 percent or greater (wt/vol), thus forming said phosphorus fertilizer.

1 **Claim 126.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 127.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 128.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 129.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,  
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one  
4 formulation comprising a phosphorous-containing acid, wherein said  
5 phosphorous-containing acid is selected from the group consisting of  
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,  
7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-  
8 containing acid or salt thereof is present in said formulation in an amount of  
9 between about 30 percent and 46 percent (wt/vol), thus forming said  
10 phosphorus fertilizer.

1 **Claim 130.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and  
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 131.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and  
3 (2) mixing said formulation and the product of step (1).

1 **Claim 132.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;  
3 (2) diluting said formulation with said water; and  
4 (3) mixing the product of step (1) and the product of step (2).